Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Textile Technology
Choice-Based Credit System (CBCS) in Light of NEP-2020
B.Sc. (Fashion Design-14A).
(2023-2026)

| COURSE CODE | CATEGORY | COURSE NAME | TEACHING &EVALUATION SCHEME | | | | | | | | |
| | | | THEORY | | | PRACTICAL | | | | | |
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	T	P	CREDITS
BSFD306	DCC	GARMENT CONSTRUCTION	60	20	20	30	20	4	0	4	6

Legends: L - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** – Credit.
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Course Educational Objective (CEOs):
1. To impart knowledge of sewing machines and types of stitches and work aids
2. To analyze the sizing of garments
3. To classify the sewing and cutting machine according to end use and application.
4. To understand different types used according to their application
5. To impart knowledge of fusing technology and equipment
6. To understand the feed mechanism used in different sewing machines
7. To provide knowledge of different parts of sewing machine, their function, spreading, cutting, and production of garments.

Course Outcomes (Cos):
Students will be able:
1. To stitch the garments
2. To check and detect the defect in dimensional measurements
3. To supervise the kind of needle and thread required according the type of fabric
4. To fuse the parts as per requirement of the garment
5. To effectively use type of feeding mechanism based on fabric
6. To demonstrate and suggest the additional attachment of sewing machine wherever required
7. To monitor the spreading, cutting and manufacturing of the garment products in the industry

SYLLABUS:

Unit I Introduction to Sewing M/c   12 HRS
Introduction to sewing, History of sewing machines, components and Basic parts of the sewing machine with their function, types of seams, stitches and their classification, Elements and Functions of Clothing-Garment Analysis and Its Classification - Measurement and Size Charts for Men, Women, and Children - Requirement and Breakdown of Garments Flow Process.

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Unit II Classification of Sewing Machine   12 HRS
Cutting machines and finishing equipment and their applications Defects and remedies. Needles and threads, types of needles and their application, thread construction, thread count, ticket number, factors affecting characteristics of thread, thread finishes, thread packages, thread properties and seam performance, SPI

Unit III Feed System   12 HRS
Differential feed system, Adjustable feed system, needle feed system, compound feed system, unison feed system, and puller feed system, Machine attachments, feet, folders, binders, stitching and edge guides, right angle double fold binders, lap seam folders, yoke setter, flat stitching guide, sewing arm stitching guide, cylindrical stitching guides.

Unit IV Spreading and Cutting   12 HRS
Spreading modes, method of spreading, fabric control device, requirement of spreading, cutting methods, cutting accessories and instruments. Production technology manual system, make through section or process system, Progressive bundle system, straight line, conveyor belt transport, UPS, quick response system.

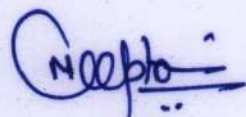### Unit V Fusing Technology   12HRS
Base cloth, resins, coating system, fusing machine and equipment, Quality control. Work aids- Machine beds, tables, chairs, Bundle etc.
Prepare samples of basic bodice block & their variations, basic skirt and their variations. Basic Dart Manipulations.
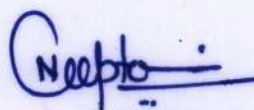
Textbooks
1. Technology of clothing manufacture - Carr & Latham
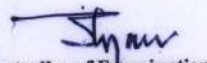2. Apparel manufacturers handbook - Jacob Solinger

References:

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1. Pattern making for fashion design – H. G. Armstrong
2. Metric pattern cutting - Winifred Aldrich
3. Pattern making made easy - Gollian Holman

List of Practical (Expand it if needed):

1. To study the flow chart of Garment Process Line
2. To study the spreading and layering techniques of fabric
3. To study cutting instruments used in garment industry
4. To study Measurement and Size Charts
5. To study and prepare the sample of the types of stitches
6. To study and prepare the types of samples
7. To study the tension variation ant SPI regulation
8. To study the work aids used in sewing machine
9. To study the breakdown of shirt - flow process
10. To study the breakdown of trouser -flow process
11. To study fusing of garment pieces
12. To prepare a sample of basic Skirt
13. To stitch the basic bodice block/ Top
14. To stitch the basic blouse.
15. To study different feed drop mechanisms.
16. To study needle feed mechanism.
17. To study time and motion study of Shirt/Trouser.

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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BSFD307	DCC	FABRIC STRUCTURE AND CLOTH ANALYSIS	60	20	20	30	20	4	0	4	6

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Course Educational Objectives (CEOs):

1. To understand and design basic fabric structures (like plain, twill and satin structures as per specifications.
2. To identify and differentiate different derivatives of basic weaves and their effect in fabric.
3. To provide knowledge on the design of compound fabric structures (like Double cloth, backed cloth, velvet structures, terry pile structures and leno structures) and jacquard designs as per specifications.
4. To identify and differentiate simple and compound fabric structures accurately.

Course Outcomes (COs)

Student will be able to:

1. Understand the elements of woven fabric designs and able to develop plain weave design and its derivatives.
2. Design twill weaves and their derivatives on graph paper.
3. Design different fancy weaves with their draft and peg plan on graph paper.
4. Explain the effect of yarn twist direction and twill angle effect.
5. Describe the color and weave effect and develop new woven fabric design, provide a suitable draft and peg plan for a given weave, and solve technical problems related to basic fabric structures on the loom.
6. Make and develop different types of backed fabric design, double cloth design, velvet fabric design, gauge and leno fabric design and complex design.

Syllabus

Unit I Introduction

Fabric - types - woven, knitted, non-woven and braided. Classification of fabric structure – simple and complex. Fabric representation - verbal, diagrammatic, graphical, and symbolic. Design possibilities - during and after fabric formation. Dimensional and physical properties of fabric - yarn density, fabric

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dimension and weight. Fabric structure vs properties.

Unit II Woven Fabric Structures
Woven fabric - mechanisms for fabric design, design possibilities, limitation and features. Woven fabric structure - elements of design, weave repeat, draft plan. Color and weaves effects - single and multicolours, stripe and check.

Unit III Woven Fabric Structures-Simple
Plain weave, Twill weave and Satin and sateen weave - characteristics, stability, possible forms and 7 hours textures, types and modification, end uses. Combined Structure; principles and possibilities - Honey comb, Huck-a-back, Mock leno and Crepe - characteristics, stability, types and uses.

Unit IV Woven Fabric Structures-Complex
Figuring weaves - warp and weft figuring - single and multi-colour warp and weft figuring, application and loom requirements.
Bedford cords - Principles and classifications, application and loom requirements.
Double cloth - Principles and classifications, stitching methods, application and loom requirements.

Unit V Knitted Structure
Weft knitted structures - basic structures - single jersey and double jersey, knit, miss and tuck, fabric characteristics, application and machine requirements. Warp knitted structures - loop formation principles, chain stitch and lapping, fabric characteristics, application and machine requirements.

List of Practical (Expand it if needed):
1. To study and analyze the design of Plain weave.
2. To study and analyze the design of Satin and sateen weave.
3. To study and analyze the design of honeycomb.
4. To study and analyze the design Brighton honeycomb.
5. To study and analyze the design of bed ford cord.
6. To study and analyze the disgn of welt and pique.

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7. To know classification of fabric based on structure.
8. To collect different fabric sample and design on the basics of structure.
9. To analyze count, ends per inch and picks per inch of woven fabric.
10. To analyze GSM of different fabric structure.
11. To analyze warp and weft crimp percentage of fabric.
12. To analyze knitted fabric: single jersey.
13. To analyze knitted fabric: Double Jersey-Rib
14. To analyze knitted fabric: Double Jersey-Interlock

Textbook

1. Fabric Structure and Design, N. Gokarneshan, Generic publication, 2011.
2. Design and Structure of Textile Fabric, S. P. Mishra, Woodhead Publishing India, 2020.
3. Fabric Structure-Simplified, Priyank Goyal, Kindle Edition, 2014.
4. Compound Fabric Structure- Simplified: A Step-by-Step Approach, Priyank Goyal, Kindle Edition, 2014.

References

1. Woven cloth construction, A. T. C. Robinson and R. Marks Robinson, Springer New York, 2014.
2. Watson's Textile Design and Colour, Elementary Weaves and Figured Fabrics, Z.J Grosicki, Woodhead Publisher, 2014.
3. Textile Weaving & Design, Murphy W S, Abhishek Publications, 2007.
4. Woven Fabric Design & Structure, A G Temesgen, Ö F Tursucular. Lambert Academic Publishing, 2019.
5. Fabric Structure and Design, Darshan Chaturvedi , Random Publication, 2014.

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BSFD402N	SEC	COMPUTER APPLICATION IN FASHION DESIGN	0	0	0	60	40	0	2	4	4

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Course Educational Objective (CEOs):
1. To familiarize students with various testing equipment's
2. To make them understand the quality control and standardization. The course will provide knowledge on the various fashion design software.
3. Course will provide to understand and use different design software of Fashion garment& accessories.
4. The course will provide hands of practice on design software

Course Outcomes (Cos):
Students will be able to:
1. Understand the different types of design software.
2. Make different designs on software.
3. Utilize available tools for making design.

SYLLABUS

Unit I Overviews of computer Applications   **10 HRS**

Overviews of computer Applications on fashion design, introduction of advanced version of design software. Applications, features, and types, requirements of hardware, installation process and attachments. Information regarding software, study latest software system.

Unit II Introduction of Textile Printing   **12 HRS**

Introduction of textile printing, use and application. Significance of file menu, edit menu, draw a figured design on paper, view menu, color tools, filter, introduction of enhanced tools. Preparation of various designs by simulating on CAD.

Unit III Coral Draw   **11 HRS**

About Corel Draw, using the menus, standard tool bar, property bar and dialog boxes, drawing rectangle, ellipses, polygons, stars, spirals and graph paper, Drawing lines of all shapes and size, creating and manipulating text selecting and transforming objects, shaping

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objects, Filling and outlining objects, viewing, zooming and ordering, combining.

Unit IV Introduction of Photoshop   09 HRS

About Photoshop, using toolbox, palettes and context menus, creating, operating and closing files changing anv as size, color modes and resolutions, understanding and working with layers, selecting areas picking and selecting colors, pattern creation with the rubberstamp, creating special images, practice block making on garment software, variant file, adjustment of different views of garment components, different techniques of pattern making, notches, curve etc.

Unit V Types of Board   10HRS

Mood board, story board making bitmap pictures, different studios, different style for fashion garment, style creation, dress making, different tools for style, colour shade.

List of Practical (Expand it if needed):

1. To study overview of Computer application on fashion
2. To study installation process with system confirmation
3. To study the features in the latest software
4. To study overview of Textile Print software
5. To study design tools in Print software
6. To prepare design on Textile Print software
7. To study overview CorelDraw
8. To study different tools of CorelDraw software
9. To prepare design on CorelDraw
10. To study overview of Photoshop software
11. To study different tools of Photoshop software
12. To prepare design on photoshop
13. To study overview of pattern making garment software
14. To study the different tools of pattern making garment software

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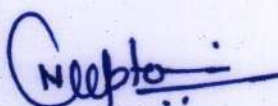| COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
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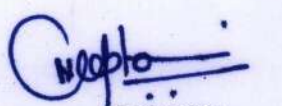***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

15. To study style creation software
16. To prepare the style on style software

References:

1. Men's wear pattern making, Alam Parwez Khan, Punkaj Pub. Delhi, 2007
2. CAD Manuals
3. CAD-Cam Principles and applications, Rao, TMH
4. Corel draw
5. Photoshop
1. Lectra manual

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